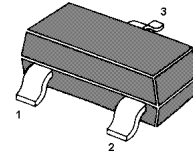
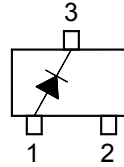


SDB160

Surface Mount Schottky Barrier Diodes

Features

- Low forward voltage drop
- Low reverse leakage



Marking Code: **KD6**
SOT-23 Plastic Package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|-------------------------------------|-------------|--------------|------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 60 | V |
| Working Peak Reverse Voltage | V_{RWM} | 60 | V |
| DC Blocking Voltage | V_R | 60 | V |
| Average Forward Current | $I_{F(AV)}$ | 1 | A |
| Repetitive Peak Forward Current | I_{FRM} | 1.6 | A |
| Peak Forward Surge Current (8.3 ms) | I_{FSM} | 15 | A |
| Power Dissipation | P_D | 500 | mW |
| Junction Temperature | T_j | - 65 to +150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | - 65 to +150 | $^\circ\text{C}$ |

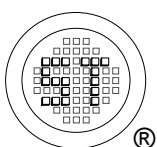
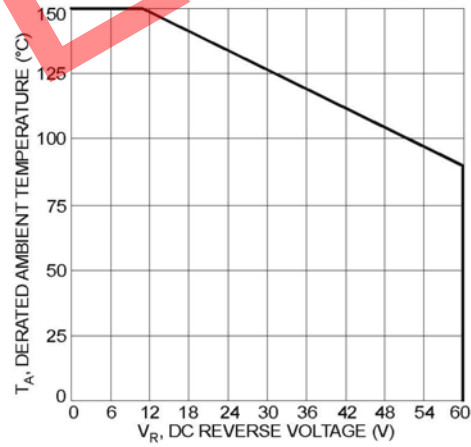
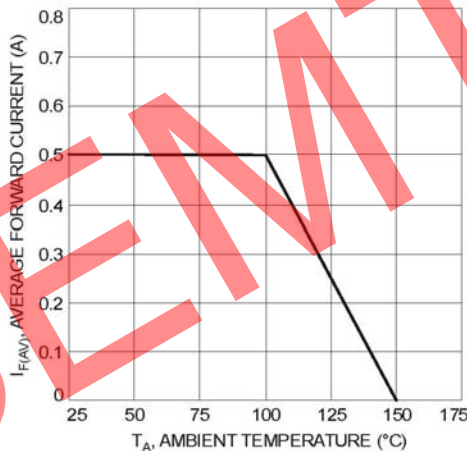
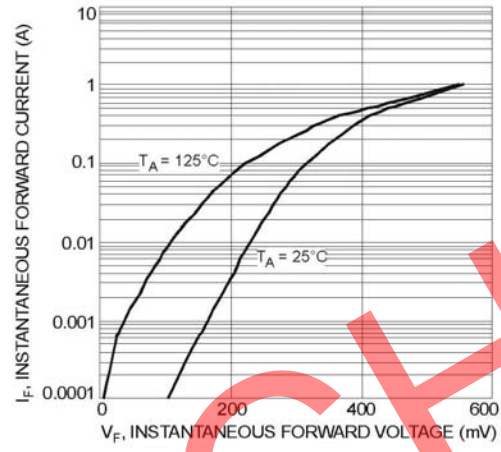
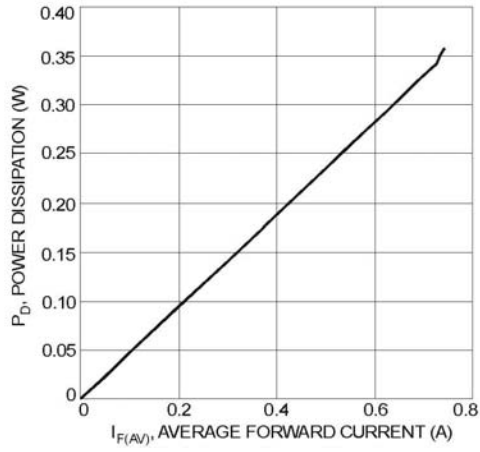
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|---|-------------|------|------|-----------------------------|---------------|
| Reverse Breakdown Voltage at $I_R = 300\text{ }\mu\text{A}$ | $V_{(BR)R}$ | 60 | - | - | V |
| Forward Voltage at $I_F = 500\text{ mA}$ at $I_F = 750\text{ mA}$ at $I_F = 1\text{ A}$ at $I_F = 1.5\text{ A}$ | V_F | - | - | 0.47 0.53 0.6 0.74 | V |
| Reverse Current at $V_R = 45\text{ V}$ | I_R | - | - | 100 | μA |
| Total Capacitance at $V_R = 25\text{ V}$, $f = 1\text{ MHz}$ | C_T | - | 19 | - | pF |



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